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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021 Date:07.01.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .
Sample : : Cement (ACC 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : December-2020
Date of Testing 05.01.2021 to 07.01.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date 07.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 07.01.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	58	5.80	5.80	94.2	90-100
2.36	120	12.00	17.80	82.2	75-100
1.18	165	16.50	34.30	65.7	55-90
600 Micron	263	26.30	60.60	39.4	35-59
300 Micron	157	15.70	76.30	23.7	8-30
150 Micron	150	15.00	91.30	8.7	0-10

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date 07.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 07.01.2021

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	240	1.60	1.60	98.40	95-100
20	8532	56.88	58.48	41.52	30-70
10	3215	21.43	79.91	20.09	10-35
4.75	2748	18.32	98.23	1.77	0-5

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date 07.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 07.01.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2456	49.1	53.1	46.9	25-55
4.75	2011	40.2	93.4	6.6	0-10

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date 07.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 07.01.2021

Material : Plastering Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	18	1.80	1.80	98.2	95-100
2.36	20	2.00	3.80	96.2	95-100
1.18	32	3.20	7.00	93.0	90-100
600 Micron	75	7.50	14.50	85.5	80-100
300 Micron	250	25.00	39.50	60.5	20-65
150 Micron	523	52.30	91.80	8.2	0-15

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date 07.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 07.01.2021

Material : Masonry Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	35	3.50	5.70	94.3	70-100
600 Micron	89	8.90	14.60	85.4	40-100
300 Micron	246	24.60	39.20	60.8	5-70
150 Micron	502	50.20	89.40	10.6	0-15

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Job No.: CQCE/BBMP/TCR/16/2020-2021 07.01.2021

TEST REPORT ON MECHANICAL PROPORTIES OF CHAIN LINK FENCING, M.S.BLOCK PIPE, M.S. RECTANGULAR POLE

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Sample Identification: Chain link fencing, MS-Block Pipe 38MM dia, M.S. Rectangular Pole

Reference to BIS codes IS 1161:1998 Steel for Structural Purposes-Specification

Date of test: 05.01.2021 to 07.01.2021

Description of Sample	Description	Results	Required as per IS 1161-1998
Chain link fencing 50 mm of 8 Gauge	Diameter	3.32 mm	3.15mm
	Measured mesh	size 52 mm	50 ± 3 mm

Description of Sample	Description	Results	Required as per IS 1161-1998
MS-Block Pipe 38MM dia of heavy guage of 14	Mass	2.24 Kg/m	
	Yield Stress	221 N/mm2 Mpa	210 Mpa min
	Tensile Strength	344 N/mm2 Mpa	330 Mpa min
	Percent	22	20% min

Description of Sample	Description	Results	Required as per IS 2062:2006, 608:1989
M.S. Rectangular Pole of 2 equal angles 65mm X 65mm X 6mm	Mass	5.84 Kg/m	5.8
	Yield Stress	178 N/mm2 Mpa	165 Mpa min
	Tensile Strength	311 N/mm2 Mpa	290 Mpa min
	Percent	24	23% min

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 29.01.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of the work : Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	29.01.2021	8.119	271.6	12.07
2	22.01.2021	29.01.2021	8.121	264.2	11.74
3	22.01.2021	29.01.2021	8.139	283.2	12.59

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 19.02.2021

Job No.: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of the work : Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	19.02.2021	8.159	377.7	16.79
2	22.01.2021	19.02.2021	8.167	385.9	17.15
3	22.01.2021	19.02.2021	8.178	394.5	17.53

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 29.01.2021

Job No: CQCE/BBMP/TCR/16/2020-2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of the work : Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	29.01.2021	8.157	256.3	11.39
2	22.01.2021	29.01.2021	8.026	271.4	12.06
3	22.01.2021	29.01.2021	8.198	285.9	12.71

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Job No: CQCE/BBMP/TCR/16/2020-2021

Date: 19.02.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of the work : Providing Fencing to BBMP Properties and Selected reaches in Ward No.16, Jalahalli, BBMP, Bangalore .

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	19.02.2021	8.164	378.9	16.84
2	22.01.2021	19.02.2021	8.157	380.0	16.89
3	22.01.2021	19.02.2021	8.187	369.8	16.44

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